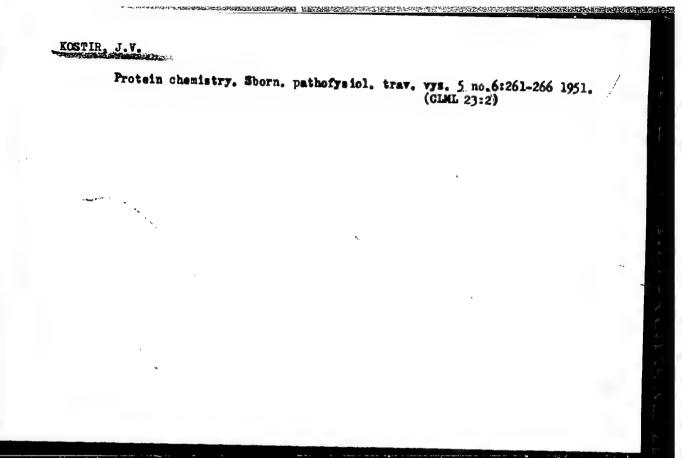
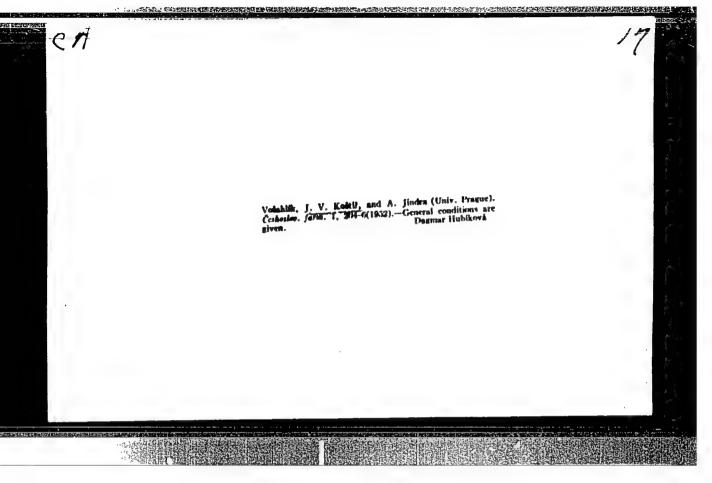


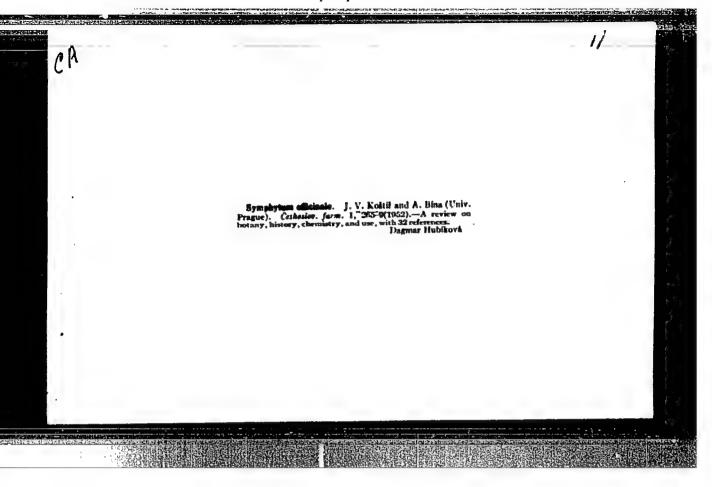
EERAN, M.; KOSTIR, J.V.; PADR. Z.

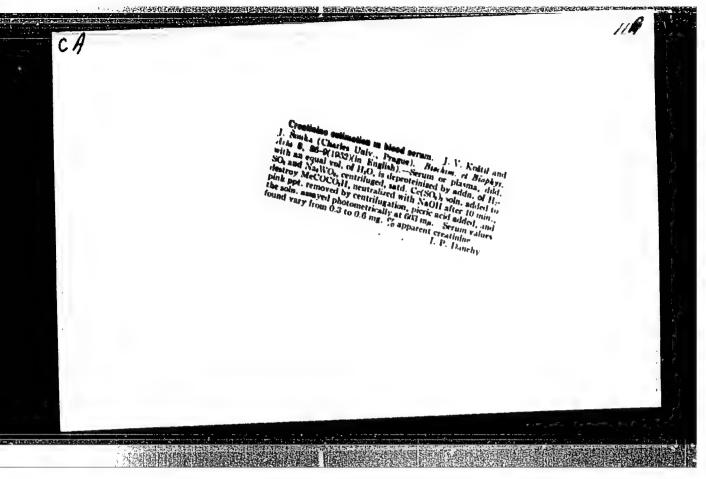
Artificial iodization of proteins; preparation of iodized casein. Cas.cesk.lok.Ved.priloha 63 no.9-12:136-138 Dec 1950. (CLML 20:9)

1. Of the Institute of Organic Chemistry of Charles University, Prague.
2. Of the Research and Control Institute, United Pharmaceutical Works, Prague.









KOSTIR, J.V.; RYBAR, D.J.; OULEHIA, B.; HAIS, I.M.; BERAN, M.

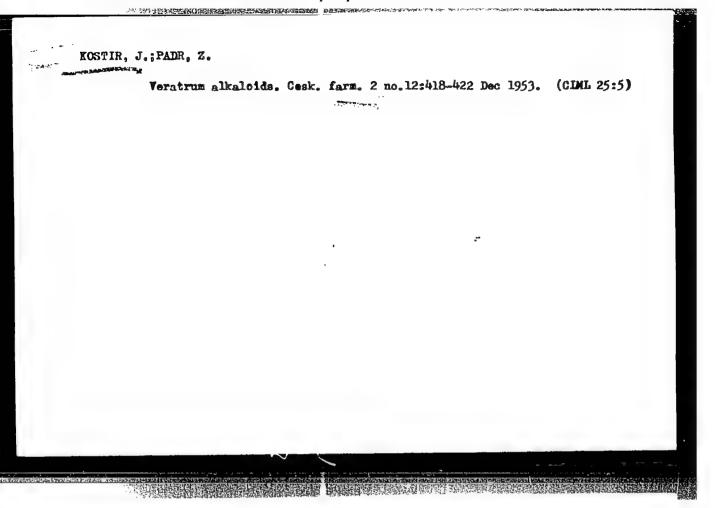
Chromatographic determination of ergotamine and ergotoxine. Cesk. farm, 1 no. 11-12:621-625 1952. (CLML 24:1)

1. Of the Research Institute for Pharmacy and Biochemstry and of Biochemstry of Charles University, Prague.

KOSTIR, J.V.: PRISTOUPIL, T.I.

Isolation of creatinine and glycocyamine with paper chromatography. Gesk. farm. 1 no. 11-12:647-649 1952. (GIML 24:1)

1. Of the Institute of Biochemistry of Charles University and of the Third Internal Clinic of State Faculty Hospital, Prague.



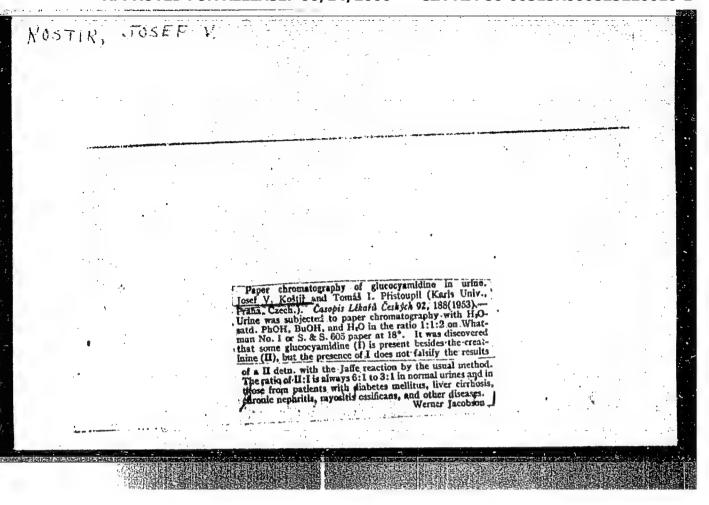
#### "APPROVED FOR RELEASE: 06/14/2000

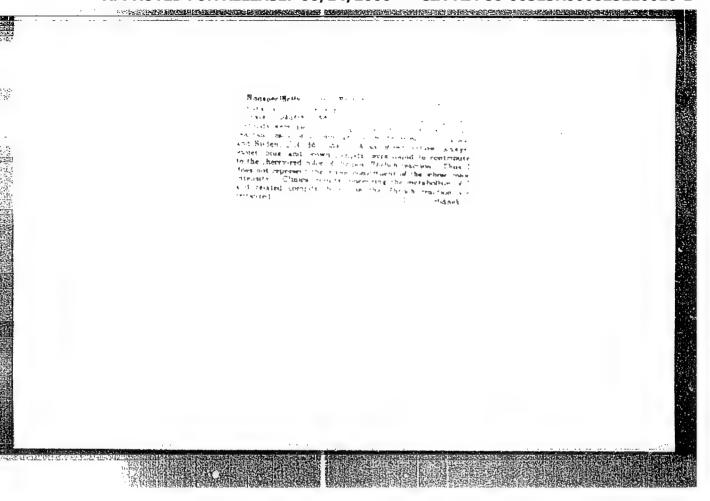
CIA-RDP86-00513R000825220010-1

#### KOSTIR J.

Paper partition chromatography of the fission products of riboflavin. IV. Effect of pH and light on solutions of riboflavin. p.205 (Chemicke Listy. Vol. 47. no. 2, Feb. 1953) Czechoslovakia

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress, August 1953, Incl.





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KANDRAC, M.; KOSTIR, J.; KASPAROVA, J.; TICHY, J.

Reduction of progesterone in the organism. II. Mothyl ketones (pregnenolones) in pregnancy. Cas. lek. cesk. 93 no.7:161-163 12 Feb 54.

1. Z III. interni kliniky Karlovy univ. v Praze (predn. prof. Dr. J. Charvet) a z Biochenickeho ustavu KU v Praze predn., doc. Dr. J. Kostir.

(PREONANCY, urine in, pregnenolone.)

(URINE, pregnenolone in pregn.)

(PRECHENOLOME, in urine, in pregn.)
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KOSTIR, J.; JINDRA, A.; HRAHETOVA, E.

Wetalloproteins. I. Inhibition of ascorbase with demercaptopropanol. Cesk. farm. 4 no.1:17-20 Jan 55.

1. Z biochemickeho ustavu university Karlovy. (OXIDASES.

ascorbase, inhib. with EAL)
(DIMERCAPROL, effects,
ascorbase inhib.)

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Alkaloids and dyes of Ustilago maydis. Cesk.farm. 4 no.3:134-136

Apr 55.

1. Z biochemickeho ustavu Karlovy university v Praze.

(ALKALOIDS.

of Ustilago maydis, separation, chromatography)

(DYES,

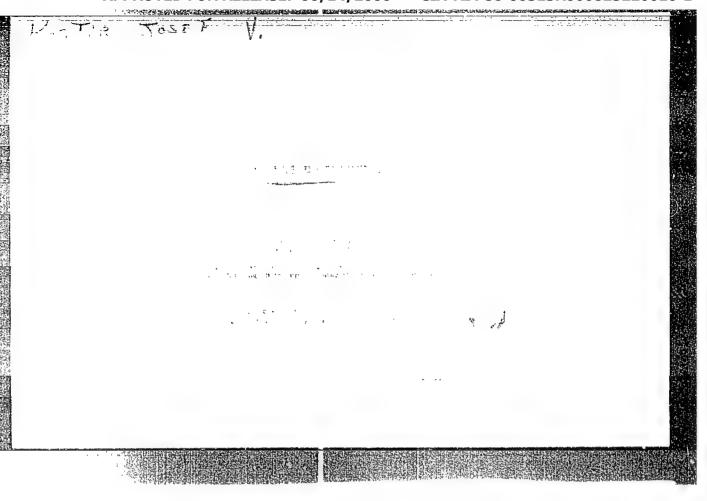
in Ustilago maydis, chromatography)

(CHROMATOGRAPHY,

alkaloids & dyes of Ustilago maydis)

(PLANTS,

Ustilago maydis, separation of alkaloids & dyes, chromatography)
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T

CZECHOSLOVAKIA / Human and Animal Physiology. Growth

Physiology.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40917.

Kostir J Author : Not Given. Inst

: Biochemistry of Aging. Title

Orig Pub: Vesmir, 1956, 35, No 9, 295-296.

Abstract: Some biochemical peculiarities of the young and

aged organism are considered, mainly the relation-

ship between ana- and catabolic processes.

Card 1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010 KOSTIR, J.

Aphins.

P. 54, (Chemie, Vol. 9, no. 1, Apr. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (FFAI) LC. Vol. 7, no. 2. February 1958

KOSTIR, J.

Biologic methylation and transmethylation.

P. 91 (Chemie, Vol. 9, no. 1, Apr. 1957, Praha, Gzechoslovakia)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7; no. 2, February 1958

KOSTJR, J.

"Biochemistry of plant movements.

p. 722 (Chemie, Vol. 9, no. 5, Nov. 1957)

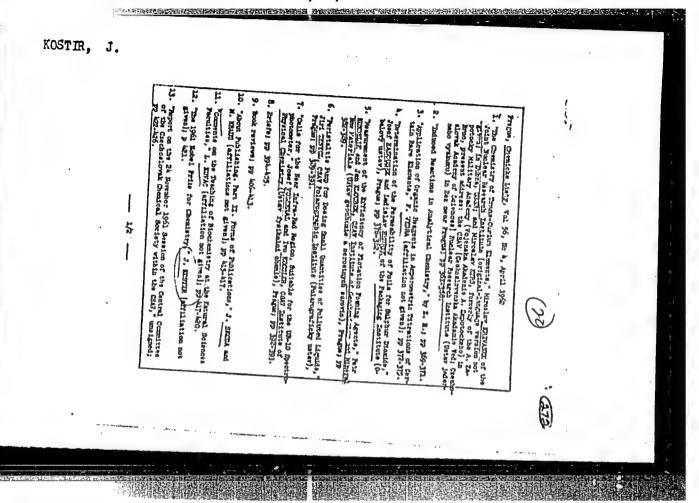
Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958

DOBIASOVA . L.; KOSTIR, J.

Our experiences with the so-called Akerfeldt reaction in psychosis. Cesk. psychiat. 53 no.6:395-397 Dec 57.

1. Psychiatricka klinika KU a Biochemicky ustav matematicko-fysikalni fakulty v Prase. L. D., Praha 2, Ke Karlovu 11. (SCHIZOPHREMIA, diag.

Akerfeldt test (Gs))



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, 一种,我们就是我们就是我们就是我们就是我们就是我们的,我们就是我们的,我们就是我们就是我们就是我们就会会的,我们就是我们就是我们就是我们就是我们的,我们就是

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KOSTIR, Josef

"Handbook of biochemistry for physicians and naturalists" by Peter Karlson. Reviewed by Josef Kostir. Chem prum 12 no.4:207 Ap \*62.

1. Karlova universita.

KOSTIR, Josef, prof., RNDr.; VALENTA, Miloslav, inz., CSc.

Determination of indole derivatves in natural materials. Pt.5. Rost vyroba 9 no.9:981-988 S\*63.

1. Katedra biochemie, Karlova universita, Praha; Vyzkumny ustav zivocisne vyroby, laborator biologie rozmnozovani, Libechov.

KODEIEKO, O.S. [Kostyrko, O.S.]

Floor in steel. Acadele metalurgie 16 no.1:183-188 Ja-Mr '62.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1"

CRIGORYAN, A.V.; VOL'-EPSHTEYN, G.L.; KOSTISHCHEV, V.K.

Lung cancer in primary multiple cancer cases. Vop. onk. 11 no.4:104-109 '65. (MIRA 18:8)

1. Iz kafedry obshchey khirurgii lechebnoy fizkulitury 1-ge Mcskov-skogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (zav. - chlen-korrespondent AMN SESR prof. V.I.Struchkov).

KOSTISHIN, K.T.; SHISHLOVS'KIT, O.A.

Simultaneous determination of the thickness and refrective index of thin layers by means of the "HII-1" microinterferometer. Mank. zap.Kiev.un. 15 no.5:27-35 '56.

(Interferometry)

(Interferometry)

KOSTISHIN, M.T. [Kostyshyn, M.T.]

Determining the order of interference in the region of strong dispersion and elimination of the phase shift effect in the interference method of measuring dispersion. Visnyk Kyiv.un.no.2. Ser.fiz.ta khim. no.1:11-15 \*59. (MIRA 14:8) (Interference (Light)) (Dispersion)

KOSTISHIN, M.T. [Kostyshyn, M.T.]

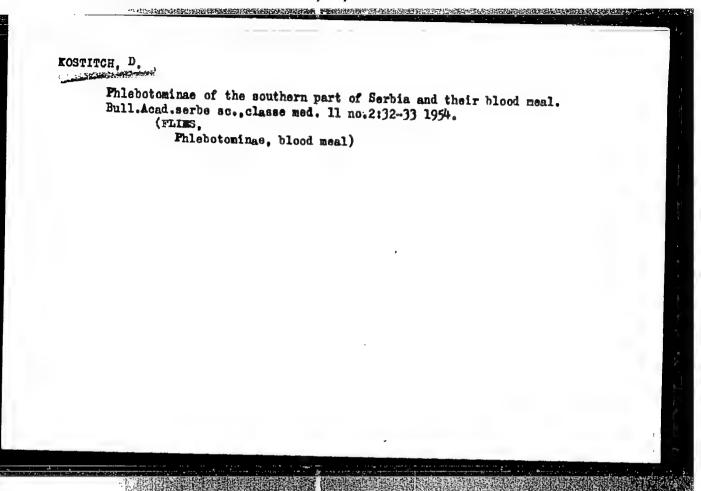
Determining the relative shape of the dispersion curve in the region of the absorption zones. Visnyk Kyiv.un.no.2.Ser.fiz.ta khim. no.1:17-20 159. (MIRA 14:8)

(Dispersion)

MOLOTKOVSKIY, G.Kh. [Molotkovs'kyi, H.Kh.]; KOSTISHIN, S.S. [Kostyshyn,

Integrity and polarity of the heterotic hybrid corn (Zea mays L.) Bukovinskii 1,2.3. Ukr. bot. zhur, 22 no.3:11-18 '65.

1. Chernovitskiy gosudarstvennyy universitet, kafedra fiziologii rasteniy.



SKORETS, Ye.M.; ABARBARCHUK, I.L.; KOSTITSINA, K.P.; RELINSKAYA, N.I.

Polarographic soil analysis. Determining the intake capacity of soils. Pochvovedenie no.1:99-105 Ja '58.

(Soils--Analysis)

(Polarography)

KOSTITSYN, V.N.

General groups of elements of two involutions of higher orders and steps defined on a single unicursal carrier. Uch. zap. MOPI 123:459-463 '63.

m-Hyperhedra circumscribed about a unicursal curve of the r-th class in n-dimensional space. Tbid.:465-468 (MURA 17:4)

KOSTITSYNA, K.P.; SKOBETS, Ye.M.

Polarographic determination of aluminum in alloys. Zav. lab. 29 no.9:1059 '63. (MIRA 17:1)

1. Ukrainskaya sel'skokhozyaystvennaya akademiya.

ABARBARCHUK, I.L.; KOSTITSYNA, K.P.; SKOBETS, Ye.M.

Polarographic determination of exchangeable aluminum in soils. Pochvovedenie no.2:114-116 F 162. (MIRA 15:3)

1. Ukrainskaya akademiya seliskokhozyaystvennykh nauk. (Soils-Aluminum content)

BULLTOVA, Z.I.; VOYTSEL', Z.A.; GOHBOVETS, A.N.; IVANOVA, Ye.A.; KAZ'MINA, T.A.; KISEL'MAN, E.N.; KLIMKO, S.A.; KLIMOVA, I.G.; KOZYREVA, V.F.; KORNEVA, F.R.; KOSTITSIHA, R.P.; KRUGLOVA, Z.M.; STRIZHOVA, A.I.; MARKOVA, L.G.; TARASOVA, A.S.; USHAKOVA, M.V.; FILIPPOVA, Ye.A., ved.red.; TROFIMOV, A.V., tekhn.red.

[Mesosoic and Cenosoic stratigraphy of the West Siberian Lowland] Stratigrafiia mesosoia i kainosoia Zapadno-Sibirakoi nizmennosti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1957. 147 p. (MIRA 12:2)

1. Gosudarstvennyy soyuznyy Zapadno-Sibirakiy nefterasvedochnyy trest.

(Siberia, Western--Geology, Stratigraphic)

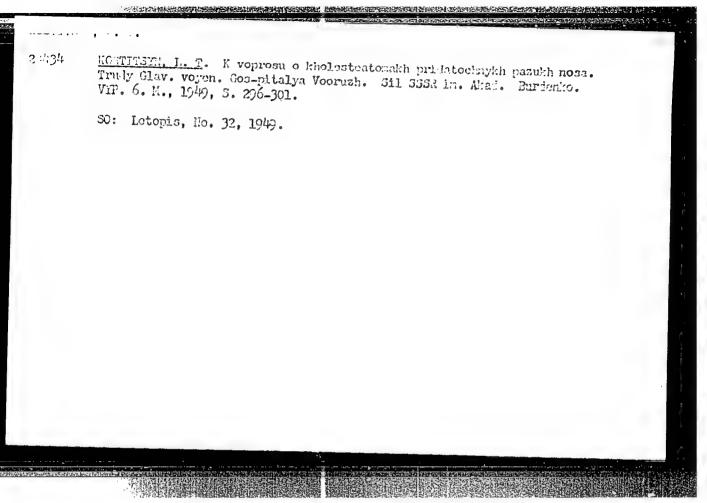
# Effect of a substituted charge fired from a shotgum. Sud.-med. ekspert. 2 no.1:56-57 Ja-Me '59. (MIRA 13:4) 1. Mogilevskoye oblastnoye byuro sudebnomeditsinskoy ekspertisy (nachal'nik M.M. Trach). (GUESEDT MOURDS)

SYTSKO, P.A.; TITOV, S.A.; KOSTITSKIY, I.V.; KUCHERENKO, V.S.; MATVIYENKO, B.N.

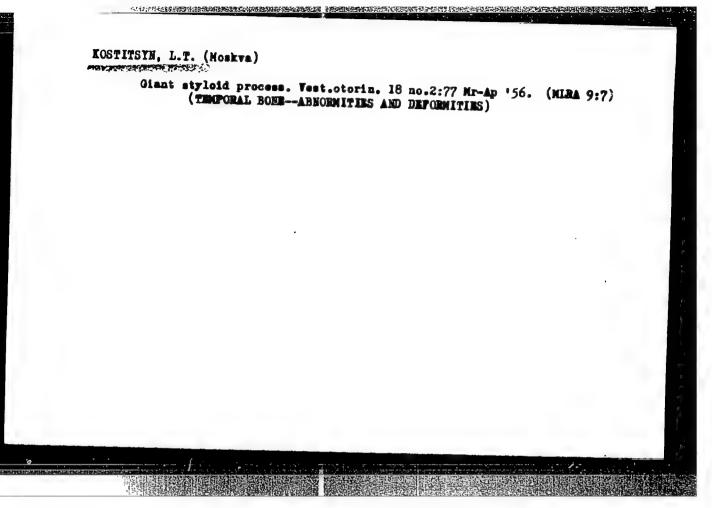
Beginning made by the Oraha track workers. Put' i put. khos. no.9: 5-8 S 158. (MIRA 11:9)

1. Nachal'nik otdeleniya dorogi st. Orsha (for Sytsko). 2. Machal'nik distantsii puti st. Orsha (for Titov). 3. Nachal'nik vagonnogo uchastka st. Orsha (for Kostitskiy). 4. Nachal'nik parovoznogo depo st. Orsha (for Kucherenko). 5. Nachal'nik energeticheskogo otdela st. Orsha (for Matviyenko).

(Orsha--Railroads--Track)



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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1"

KOMISSAROV, A.N., kand.med.nauk; KOMISSAROVA, N.Ye.; KOSTITSYN, L.T., kand. med.nauk

Sequence of reactive changes in the blood exposed to ionizing radiation. Terap.arkh. 31 no.8:3-12 Ag \*59. (MIRA 12:11)

1. Iz Glavnogo voyennogo gospitalya imeni N.N. Burdenko (nauchnyy rukovoditel raboty - chlen-korrespondent AMN SSSR prof. N.A. Kurshakov).

(BLOOD radiation effects)

Kos T. Tsy N. V. T. (Diceaset)

25(2)

PHASE I BOOK EXPLOTEATION

SOV/2563

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po teorii mashin i mekhanizmov

Trudy, tom 18, vyp. 71 (Transactions of the Institute of Mechanical Engineering, Academy of Sciences, USSR. Seminar on the Theory of Machinery and Mechanisms, Vol 18, No. 71) Moscow, Izd-vo AN SSSR, 1958. 89 p. Errata slip inserted. 2,500 copies printed.

Ed. of Publishing House: M.L. Dobshits; Tech. Ed.: N.F. Yegorova; Editorial Board: I.I. Artobolevskiy, Academician (Resp. Ed.); G.G. Baranov, Doctor of Technical Sciences, Professor; V.A. Gavrilenko, Doctor of Technical Sciences, Professor; A.Ye. Kobrinskiy, Doctor of Technical Sciences; N.I. Levitskiy, Doctor of Technical Sciences, Professor; N.P. Rayevskiy, Candidate of Technical Sciences; L.N. Reshetov, Doctor of Technical Sciences, Professor; and M.A. Skuridin, Doctor of Technical Sciences, Professor.

PURPOSE: This collection of articles is intended for scientific research workers and engineers.

Card 1/4

3

11

Transactions (Cont.)

80V/2563

COVERAGE: This collection of articles deals with the following topics: thread control in textile machines, pneumatic devices with diaphragms, resonance in centrifugal pumps, the dynamics of electrically driven machinery, synthesis of four-link transmission mechanisms, and the design of link mechanisms. No personalities are mentioned. References follow several of the articles.

TABLE OF CONTENTS:

Preface.

Kostitsyn, V.T. (Deceased) [Dector of Technical Sciences, Professor]. Design of a Disk-type Thread Governor

The author points out the interdependence between the tension in the thread and the angle of contact between thread and spindle.

Gerts, Ye.V. [Candidate of Technical Sciences.]. Dynamic Characteristics of Pneumatic Diaphragm-type Devices

This theoretical and experimental investigation deals with the dynamic characteristics of a single-action pneumatic device with a plane disphragm.

Card 2/4

22

43

Transactions (Cont.)

807/2563

Examples of the calculations involved are presented.

Kononenko, V.O. [Doctor of Technical Sciences]. Resonance Properties of a Centrifugal Vibrator

Equations for the motion of a centrifugal vibrator are presented, and the basic interrelations between the parameters of the system and the regimes of the motion are established. Simplified geometrical criteria for steady motion and the effect of mechanical characteristics are presented.

Bykhovskiy, M.L. [Doctor of Technical Sciences]. Problem of the Dynamics of Machinery With Electric Drives

The author derives a general equation for investigating the dynamics of decelectromechanical systems, with consideration being given to classes.

electromechanical systems, with consideration being given to electromagnetic processes in the motor. A comparison is made with other simplified methods which take only the static characteristics of the motor into consideration.

Cherkudinov, S.A., and N.V. Speranskiy. Synthesis of Four-bar Linkage Mechanisms by the Method of Interpolative Approximation With One Node of High Multiplicity. 60 This article is the continuation of an article published by the authors in

Card 3/4

Transactions (Cont.)

807/2563

Volume I, Number 67, 1957, under the same title. Methods developed in the first part are applied to the synthesis of the slider-crank mechanism.

Grodzenskaya, L.S. Design of Linkage Mechanisms for a Given Time of Dwell of the Follower Link

Methods for designing link mechanisms with a dwell in the extreme position (Chebyshev mechanisms) are discussed.

AVAITABLE: Library of Congress

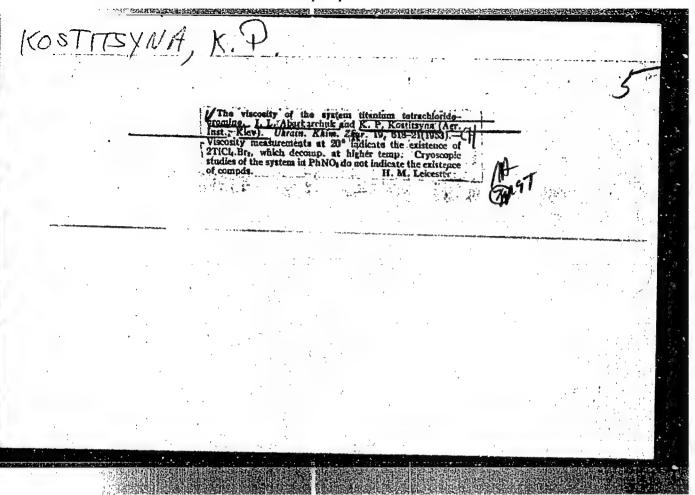
Card 4/4

00/јъ 12-19-59

## KOSTITSYN, Yu.S.

The "shoe symptom" - an easily detectable sign of sweat secretion disorders in endarteritis obliterans. Vrach. delo no.1:75-76 Ja '62. (MINA 15:2)

1. Khirurgicheskoye otdeleniye Krasnokutskoy rayonnoy bol'nitsy Khar'kovskoy oblasti.
(ARTERIES\_DISEASES) (SWEAT GLANDS\_DISEASES)

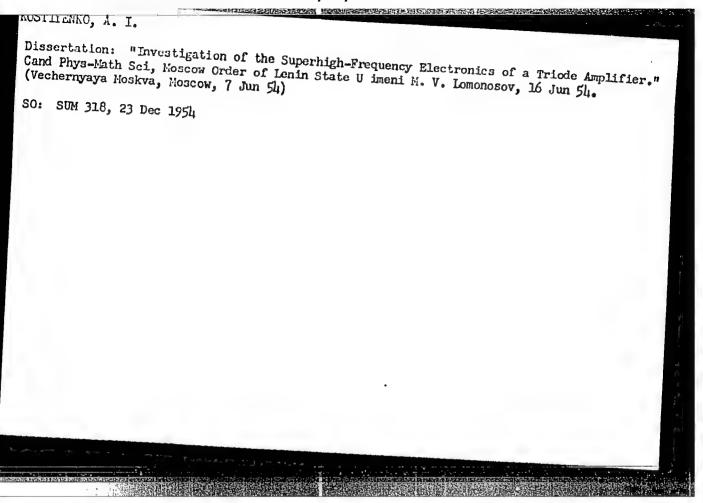


KOSTIUKOW, Jurij M.

Geological mapping of Wielka Swistowka and the Mulowy and Litworowy Hollows. Acta gool Pol 13 no.2:223-238 163.

1. Laboratory of Geological Mapping, University, Warsaw.

APPROVED FOR RECEMBER 06, 100 7000 LLA ROPS 6 005 1 340000



KHARKEVICH, Aleksandr Aleksandrovich; KOSTIVENCA I., redaktor;
TUMARKINA, N.A., tekhnicheskiy redaktor

[Nonlinear and parametric phenomena in radio enegineering] Melineinye i parametricheskie iavlenia v radiotekhnike. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 184 p. (MIRA 10:1)

(Radio circuite)

GVOZDOVER, Samson Davidovich; KOSTIVENKO, A.I., redaktor; TUMARKINA, N.A., tekhnicheskiy redaktor

[Theory of ultra-high frequency electronic apparatus] Teoriia elektron-nykh priborov sverkhvysokikh chastot. Moskva, Gos. izd-vo tekhniko-(Electron tubes)

(MIRA 9:11)

Investigation of the electron conductivity of plane electrode tubes, Radiotekh.i elektron. 1 no.6:809-813 Je '56. (NIRA 10:1)

1. Fizicheskiy fakul'tet Moskovskogo Gosudarstvennogo universiteta. (Amplifiers, Electron-tube)

VISHENCHUK, Igor' Mikhailovich; SOGOLOVSKIY, Yevgeniy Panteleymonovich; SHVETSKIY, Bentsion Yosifovich; KARANDEYEV, K.B., red.; KOSTIYENKO, A.I., red.; MURASHOVA, N.Ya., tekhn.red.

[The electron-beam oscillograph and its use in measuring]
Blektronno-luchevoi ostsillograf i ego primenenie v izmeritel'noi
teknnike. Pod red. K.B.Karandeeva. Moskva, Gos.izd-vo tekhnikoteoret.lit-ry, 1957. 220 p.
(Cathode ray tubes) (Measuring instruments)

KHARKEVICH, Aleksandr Aleksandrovich; KOSTIVENKO, A.I., red.; GAVRILOV, S.S., tekhn.red.

[Spectra and analysis] Spektry i analis. Isd. 3-e, perer. Moskva.
Gos. izd-vo tekhniko-teoret. lit-ry, 1957. 236 p. (NIRA 11:2)

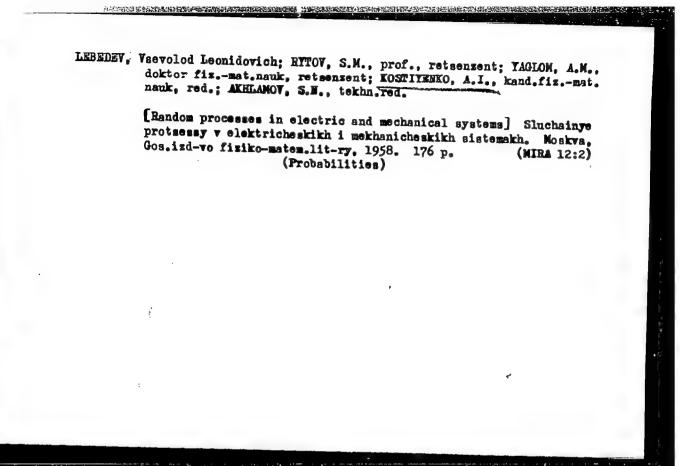
(Spectrum analysis)

KGSTINENKO, A.I.,
KHARKHYICH, Aleksandr Aleksandrovich; KOSTINENKO, A.I., red.; GAVRILOV, S.S.,
tekhn.red.

[Theoretical elements of radio communication] Teoreticheskie osnovy
radiosviasi. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1957.
347 p.

(Radio)

(Radio)



KOSTIYENMO H. I.

109-1-12/18

AUTHORS: Gvozdover, S.D., Kostiyenko, A.I., Lyubimov, G.P.

TITLE: Experimental Study of the Mutual-Synchronous Operation of the Reflex Klystrons of the 3-cm Waveband (Eksperimental noye izucheniye vzaimno-sinkhronnoy raboty otrazhatel nykh klistronov trekhsantimetrovogo diapazona)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol. III, Nr 1, LP.105-111 (USSR)

ABSTRACT: Mutual synchronisation of the reflex klystrons can be explained with reference to Fig.1, which represents the output power p and the frequency f of two klystrons as a function of the voltage applied to the reflector. One of the klystrons operates at a frequency somewhat lower than the other, but the difference is such that while the output power of one of the klystrons decreases, that of the other increases. Consequently, it is possible to obtain an almost constant output power over the whole range between the two "steady state" klystron frequencies. Furthermore, the resulting output frequency can be made a linear function of the reflector voltage. The phenomenon was investigated experimentally by means of the equipment shown in the block schematic of Fig.2. The equipment consisted of:

Card 1/3

109-1-12/18

Experimental Study of the Mutual-Synchronous Operation of the Reflex

(1) klystron outputs, (2) attenuators, (3) waveguide junctions, (4) a T-junction, (5) an impedance transformer, (6) a waveguide-cable transformer, (7) a detector head, (8) a load, (9) 2 klystrons, (10) a wavemeter, (11) a spectrum analyser, (12) an amplifier, (13) an oscillograph, (14) a sawtooth voltage generator, (15) a switch and, (16) klystron power supply. The experimental output power supply and the reflector voltage and frequency curves as a function of the reflector voltage are shown in Figs. 3a and 35. It was found that the klystrons can be operated under several different modes; some of these are characterised by the absence of mutual synchronisation while others may lead to the appearance of beats. It was found, for example, that the synchronous regime could be obtained if the reflector voltage was varied by ±5 V. Some experimental work was carried out on 3 and 5 klystrons operating with a common load. The power and frequency response of the 3-klystron system are shown in Fig.7 while the power response of the 5-klystron system

Card 2/3

Experimental Study of the Mutual-Synchronous Operation of the Reflex Klystrons of the 3-cm Waveband

is illustrated in Fig.3. From the above it is concluded that the 3-klystron system can be used in practical applications, whereas the systems employing a larger number of klystrons appear impractical. There are 8 figures and 2 Russian references.

ASSOCIATION: Physics Faculty of the Moscow State University, in.
M. V. Lomonosov (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova)

SUBMITTED: December 7, 1956 AVAILABLE: Library of Congress

Card 3/3

KOSTIYENKO A. I.

AUTHORG: Kostiyenko, A.I., Lyubimov, G.P.

109-1-13/18

TITIE: The Influence of a Load on the Mutual-Synchronous Operation of 2 Reflex Klystrons (Vliyaniye nagruzki na vsaimno-sinkhronnuyu rabotu dvukh otrazhatel'nykh klistronov)

PERIODICAL: Radiotekhrika i Elektronika, 1950, Vol.III, Nr 1,

ABSTRACT: The effect was investigated experimentally by means of the equipment shown in Fig.1, p.112. This consisted of:
(1) two klystron heads, (2) attenuators, (5) a Tjunction, (4) an impedance transformer, (5) an output section (to the wavemeter), (6) an output section to a spectrum analyser, (7) a power indicator and (8) a dummy the first case the input impedance of the load was strongly dependent on frequency; the impedance curve is given in Curve as a function of the reflector voltage are shown in quency dependent (as is shown in Fig.3B) the output power voltage were in the form shown in Figs.3A and 5 respectively. Card 1/2

109-1-13/18

The Influence of a Load on the Mutual-Synchronous Operation of 2 Reflex Klystrons

the effective synchronous tuning bandwidth of the two klystrons is dependent on the load impedance; if the impedance-frequency characteristic of the load is constant, the output frequency is almost a linear function of the reflector voltage and the output power is constant over an appreciable band of frequencies. The authors express their gratitude to M. A. Drozdova and A. A. Lebed' for their help in this work. There are 3 figures, 1 table, and 1 Russian and 1 English reference.

ASSOCIATION: Chair of Radio Engineering of the Physics Faculty of the Moscow State University im. M. V. Lomonosov (Kafedra radiotekhniki fizicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova)

SUBMITTED: January 23, 1957 AVAILABLE: Library of Congress

Card 2/2

sov/141-58-4-25/26

**AUTHORS:** 

Kostiyenko, A.I., Devyatkov, M.N. and Lebed', A.A.

出一个大学的,我们就是我们的自己的一个大学的,我们就是我们的一个大学的一个大学的,我们就是我们的一个大学的一个大学的一个大学的一个大学的一个大学的一个大学的一个

TITLE:

Electronic Detection at Ultrahigh Frequencies (Elektronnoye detektirovaniye na sverkhvysokikh

chastotakh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1958, Nr 4, pp 168-170 (USSR)

ABSTRACT:

The work reported deals with the possibility of the detection of ultrahigh frequency signals by means of reflex klystrons. An experimental investigation was carried out on glass tubes types K-11 and K-26, operating at wavelengths to  $\lambda = 10$  cm and  $\lambda = 3$  cm. The detection was achieved by separating the grids of the klystron resonators and by applying to them various positive potentials. This arrangement permitted the obtaining of various potential distributions in the interaction space and in the reflector space of the klystrons. The experimental system employed is illustrated in Fig 1, while its potential distributions are shown in Fig 2. The detector curves are shown in Fig 3 and 4. Fig 3

illustrates the detector current  $\Delta I_0$  and the reflector

Card 1/2

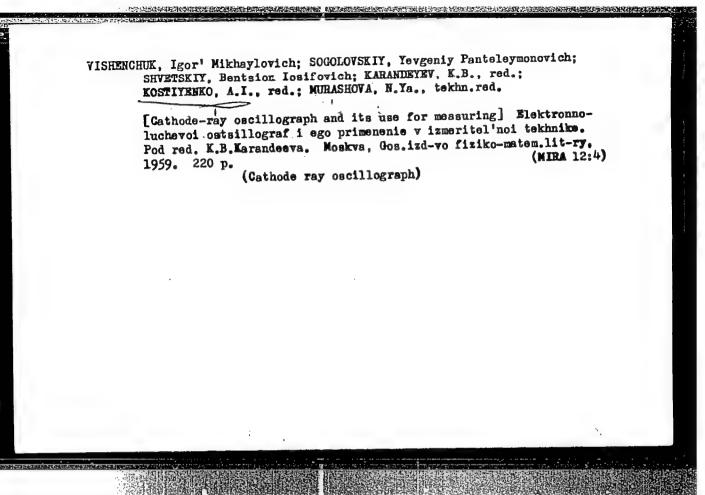
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**APPROVED FOR RELEASE: 06/14/2000** 

SVIRIDOV, Vladimir Timofeyevich; KOSTIYENKO, 1.I., red.; GAVRILOV,
S.S., tekhn.red.

[Radio relay lines] Radioreleinye linii sviazi. Moskva,
Gos.izd-vo fiziko-matemalit-ry, 1959. 78 p. (MIRA 12:10)

(Radio relay systems)



SHEVCHIK, Vladimir Nikolayevich; KOSTIYENKO, A.I., red.; MASHAROVA, V.G., red.; SMURCV, B.V., tekhn.red.

[Osnovy elektroniki sverkhvysokikh chastot] Osnovy elektroniki sverkhvysokikh chastot. Pod red. A.I.Kostienko. Moskva, Izd-vo "Sovetskoe radio." 1959. 306 p. (MIRA 12:3) (Riectronics)

SOV/109-59-4-2-20/27

Kostiyenko, A.I. AUTHOR:

A Method of Measuring the Electron Admittances of Flat-Electrode Tubes (Ob odnom metode izmereniya TITIE:

elektronnykh provodimostey ploskoelektrodnykh lamp)

FERIODICAL: Radiotekhnika i Elektronika, 1959, Vol 4, Nr 2,

pp 313-320 (USSR)

The equipment used in the measurements of the electron admittances of U.H.F. tubes is shown diagrammatically in ABSTRACT:

Fig 1. In this, the inter-electrode gap to be

investigated is placed between two sections of the centre conductor of a co-axial line; this is illustrated in detail in Fig 2. The U.H.F. power from a generator is fed to the investigated inter-electrode gap. The input admittance of the line section following the gap is determined by measuring: (a) the characteristics of the line section between the measuring line and the investigated gap; (b) the admittance of the gap itself

and (c) the position of the plunger (see Fig 2) with

respect to the gap. The equipment is particularly suitable for measuring the admittances of klystrons and

Card 1/3

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SOV/109-59-4-2-20/27

A Method of Measuring the Electron Admittances of Flat-Electrode

lighthouse tubes as shown in Fig 2. The measured tube can be represented by means of an equivalent quadripole. It is shown that the characteristic equation of the quadripole is in the form of Eq (15), where Δx2 is quadripole is in the form of Eq (15), where Δx2 is displacement of the shorting plunger from its rest displacement of the shorting plunger from its rest position, lad is the effective length of the non-position, lad is the wavelength, β = 2√1/λ; C D and A'B'), λ is the wavelength, β = 2√1/λ; C D and A'B'), λ is the wavelength, β = 2√1/λ; C D and A'B'), λ is the wavelength, β = 2√1/λ; While X11 and X22 are the equivalent parameters of the while X11 and X22 are the equivalent parameters of the quadripole in a passive state (without an electron quadripole in a passive state (without an electron pp 316 and 317. The impedance of the inter-electrode pp 316 and 317. The impedance of the inter-electrode and X3 are the resistance and the reactance components and X3 are the resistance and the reactance components of the electron impedance of the gap. This impedance of the electron impedance (see Eq (18)) of a tube the impedance or the admittance (see Eq (18)) of a tube can be evaluated from the measured values of the input admittances. The parameters of the equivalent

Card 2/3

Tubes

# APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513B090825230910

A Method of Measuring the Electron Admittances of Flat-Electrode Tubes

quadripole can be determined by displacing the plunger and determining the dependence of the position of the standing wave node on the position of the plunger. These measurements are plotted in the form of curves and straight lines, as functions of  $\Delta x$  or  $\operatorname{ctg} \Delta x$ . From the curves it is possible to determine the effective length of the section, while from the straight lines it is possible to evaluate the quantities expressed by Eq (19) and (20); from these in turn it is possible to determine the two parameters of the quadripole. There are 2 figures and 3 references of which 1 is Soviet, 1 English and 1 German.

SUBMITTED: 17th April 1957

Card 2/3

SOV/109- - -4-3-19/38

AUTHORS: Kostiyenko A.I., Devyatkov M.N., and Lebed' A.A.

TITLE: Use of the Virtual Cathodes for the Detection at Ultra-High Frequencies (Ob ispol'zovanii virtual'nykh katodov dlya detektirovaniya na sverkhvysokikh chastotakh)

PERIODICAL: Radiotekhnika i Elektronika, 1959, Vol 4, Nr 3, pp 482-488 (USSR)

ABSTRACT: The problem was investigated experimentally. The circuit employed is shown in Fig 1; a constant potential U1 was applied to the accelerating grid and to the first grid of the interaction gap; a potential U2 was applied to the second grid of the interaction gap, and applied to the second grid of the interaction gap. By adjusting potentials U1 and U2, two virtual cathodes can be formed inside the tube, as is illustrated in Fig 2. The experiments were carried out at wavelengths of 10 - 3 cm. At the 10 cm wave the UHF power was fed to the klystron by means of a cavity resonator as shown in Fig 3a. At the 3 cm wave the UHF power was fed by means of a rectangular waveguide; this is shown in Fig 3b. The measured results are shown graphically in Figs 4-8. Fig 4 represents the dependence of the

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Use of the Virtual Cathodes for the Detection at Ultra-High
Frequencies

reflector current  $I_O$  on the reflector voltage  $U_O$  for  $U_O > o$ . The figure illustrates also the increase of the reflector current  $\Delta I_O$  due to the ultrahigh frequency signal. The dependence of  $I_O$  and  $\Delta I_O$  on the potential of the accelerating grid is illustrated in Fig 8. From the above experiments it is concluded that the use of the virtual cathodes for the purpose of the detection is quite feasible. The best results are obtained when the virtual cathode effect is very small. The detection mechanism at the 3 cm wave is almost identical with that at the 10 cm wave. The authors express their gratitude to S.D. Gvozdover for valuable advice and his interest in this work. Acknowledgement is also made to M.A. Drozdova and V.G. Titov for their help in carrying

Use of the Virtual Cathodes for the Detection at Ultrahigh

out the experiments. There are 8 figures and 2 Soviet references.

ASSOCIATION: Fizicheskiy Fakul'tet Moskovskogo Gosudarstvennogo Universiteta imeni M.V. Lomonosova (Physics Department of imeni M.V. Lomonosov)

Moscow State University

SUBMITTED: September 6, 1957

Card 3/3

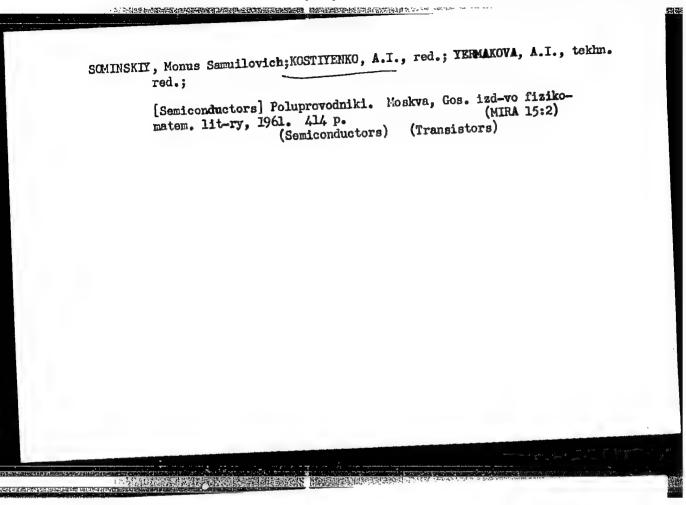
Frequencies

ERGLIS, Kronid Eduardovich; STEPANENKO, Igor' Pavlovich; KOSTIYENKO, A.I.,
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010

[Electronic amplifiers] Elektronnye usiliteli. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 487 p. (MIRA 14:7)

(Amplifiers, Electron-tube)

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1



SANIN, Aleksey Aleksandrovich; KOSTIYENKO, A.I., red.; KRYUCHKOVA, V.N., tekhn. red.

[Electronic devices in nuclear physics] Elektronnye pribory iadernoi fiziki. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 615 p.

(NIRA 14:12)

(Nuclear physics--Electronic equipment)

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1

KHARKEVICH, Aleksandr Aleksandrovich; KOSTIYENKO, A.I., red.;
GAVRILOV, S.S., tekhn. red.

[Spectra and analysis] Spektry i analiz. Izd.4. Moekva, Gos.
izd-vo fiziko-matem. lit-ry, 1962. 236 p. (MIRA 15:6)

(Spectrum analysis)

9,4130

3山95 S/109/62/007/002/017/024 D266/D303

AUTHORS:

Kostivenko. A.I., and Pirogov, Yu.A.

TITLE:

Interaction between an electron beam and a higher order waveguide mode in a large planar gap

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 2, 1962, 332 - 338

TEXT: The aim of the paper is to analyze the interaction between an electron beam and an  $H_{11}$  mode in a rectangular waveguide. The bottom and top plates of the waveguide contain the grids  $c_1$  and  $c_2$  which are at the potential  $U_1$  and  $U_2$  respectively. If sufficient amount of space charge is present the d.c. potential distribution has a minimum somewhere between the grids. Accordingly the authors approximate this potential distribution by a parabola

 $u(x) = px^2 - qx + c \tag{1}$ 

which means a linear variation in electric intensity. Assuming that Card 1/4

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CIA-RDP86-00513R000825220010-1 S/109/62/007/002/017/024 D266/D303

Interaction between an electron ...

the diameter of the electron beam is considerably smaller than the dimensions of the waveguide the y dependence of the electric field is negligible and only the x dependence

 $\mathbb{E}_{\mathbf{x}}|_{\mathbf{y}=\mathbf{a}/2} = \mathbb{E}_{10} \cos \frac{\mathfrak{A}'}{\mathfrak{b}} \mathbf{x} \tag{4}$ 

is taken into account. Approximating (4) by a straight line the equation of motion for an electron is obtained as follows

 $\frac{d^2x}{dt^2} = a_0^2x - \frac{eq}{m} + \mu \frac{eq}{m} (\zeta x - 1) \sin(\omega t + \varphi)$  (8)

where e, m - electron charge and mass,  $\varphi$  - phase angle,  $\zeta$  = 2/b,  $a_0^2 = 2 \frac{e}{m} p$ ,  $\mu = 4E_{10}/\Im q$ . Since  $\mu \ll 1$  (valid under small signal conditions) it is convenient to write the solution of the differential equation in the following form

 $x(t) = x^{(0)}(t) + \mu x^{(1)}(t) + \mu^2 x^{(2)}(t) + \dots$ 

Card 2/4

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1

Interaction between the electron ...

S/109/62/007/002/017/024 D266/D303

magnetic signals. There are 3 figures and 3 Soviet-bloc references.

ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova, Kafedra radiotekhniki (Physics Faculty of Moscow State University im. M.V. Lomonosov, Department of Radioengineering)

SUBMITTED:

June 8, 1961

Card 4/4

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1"

9,4230

S/109/62/007/005/009/021 D266/D307

332081

AUTHORS:

Devyatkov, M.N., Kostiyenko, A.I., and Myasoyedov, Ye.

Ya.

TITLE:

Travelling wave tubes as UHF detectors and mixers

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 5, 1962,

838 - 843

TEXT: The purpose of the paper is to investigate experimentally the detector and mixer properties of ordinary low power travelling wave tubes in the 10 cm and 3 cm range. The input signal (and the local oscillator signal in case of mixing) is fed into the travelling wave tube and the detected signal (or i-f signal) is taken from the collector circuit. The voltages on the different electrodes are the same as in amplifier operation except that of the collector which is considerably depressed. The collector current in the absence of input signal depends very strongly on collector voltage. The collector current in the presence of signal is altered. The current difference,  $\Delta\,I_k$ , and its ratio to input power,  $\Delta\,I_k/P_c$ , are plotted

Card 1/2

Travelling wave tubes as UHF ...

S/109/62/007/005/009/021 D266/D307

against input power. For small input power ( $P_c < 5\mu W$ ) the detector characteristics are near to quadratic. The minimum detectable signal was found to be about 10-10 watt which is of the same order as that obtainable by a TWT-crystal combination. In mixer operation the chosen i-f frequency was 40 Mc. The dependence of conversion gain and i-f power on input power is plotted, showing about 17 db conversion gain in low level operation. I-f power plotted against local oscillator power shows a maximum around  $P_{10} \cong 50-70$  microwatts. The li-

mit sensitivity of the travelling wave tube mixer was found to be worse than that of the TWT-crystal by 5 to 10 db. The bandwidth of the mixer was not determined but in each case it exceeded 10 %. Some experiments were also performed by feeding back the higher frequency to the input of the travelling wave tube. The limiting sensitivity improved in this case by approximately 3 db. There are 6 figures.

ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova, Kafedra radiotekhniki (Physics Faculty of Moscow State University im. M.V. Lomonosov, Department of Radio Engineering)

SUBMITTED: Card 2/2 June 8, 1961

BRANDT, Aleksandr Aleksandrovich; KOSTIYENKO, A.I., red.; PLAKSHE, L.Yu., tekhn. red.

[Study of dielectrics at superhigh frequencies] Issledovanie dielektrikov na sverkhvysokikh chastotakh. Moskva, Fizmatgiz, 1963. 403 p. (MIRA 16:5)

EERMAN, Lev Solomonovich; KOSTIYENKO, A.I., red.; MIKHLIN, E.I., tekhn. red.

[Nonlinear capacitance of semiconductors] Nelineinaia poluprovodnikovaia emkost. Moskva, Fizmatgiz, 1963. 85 p. (MIRA 16:8)

VARGAFTIK, Natan Borisovich; KOSTIYENKO, A.I., red.; KIVILIS, S.Sh., red.; SKURLATOV, V.I., red.; KRYUCHKOVA, V.N., tekhn. red.

[Manual on the thermophysical properties of gases and liquids] Spravochnik po teplofizicheskim svoistvam gazov i zhidkostei. Moskva, Fizmatgiz, 1963. 708 p. (MIRA 16:12) (Gases--Thermodynamics)

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KHARKEVICH, Aleksandr Aleksandrovich; KOSTIYENKO, A.I., red.; KRYUCHKOVA, V.N., tekhn. red.

[Control of radio interference] Bor'ba s pomekhami. Moskva, Fizmatgiz, 1963. 274 p. (MIRA 16:12) (Radio-Interference) (Information theory)

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ARTSIMOVICH, Lev Andreyevich; KOSTIYERO, A.I., red.; EMURIO, E.F., tekhn. red.

[Controlled thermonuclear reactions] Upravliaemye termoiadernye reaktsii. Izd.2., perer. Moskva, Fizmatgiz, 1963. 496 p. (MIRA 17:3)

STEPANENKO, Igor' Pavlovich; KAGANOV, I.L., pref., reterment; KOSTIYENKO, A.I., red.; LARIONOV, G.Ye., tekhn. red.

[Principles of transistor theory and transistor circuits]
Osnovy teorii tranzistorov i tranzistornykh skhem. Moskva,
Gosenergoizdat, 1963. 375 p. (MIRA 17:3)

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1

ERGLIS, Kronid Eduardovich; STEP/NENKO, Igor' Favlovich; EOSTIYERKO, A.I., red.

[Electronic amplifiers] Elektronnye usiliteli. Izd.2., ispr. i dop. Moskva, Nauka, 1964. 539 p.

(UIRA 17:10)

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1

RIZKIN, Abel: Aronovich; KOSTIYENKO, A.I., red.

[Principles of the theory and design of e ectronic amplifiers] Osnovy teorii i rascheta elektronnykh usilitelei. Moskva, Energiia, 1965. 462 p. (MIRA 18:6)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220010-1"

PIKUS, Grigoriy; KOSTIYENKO, A.I., red.

[Principles of the theory of semiconductor devices]
Osnovy teorii poluprovodnikovykh priborov. Moskva,
Nauka, 1965. 448 p. (MIRA 19:1)

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DANITSKIY, Illarion Savvich; KOSTOLEVSKIY, M.M., red.; ZINCHENKO, V.S., red.izd-va; PAVLOVSKIY, A.A., tekhn. red.

[The plywood market of capitalist countries] Fanera; rynok kapitalisticheskikh stran. Moskva, Vneshtorgizdat, 1963.
202 p. (Plywood industry)

## KOSTIYEVSKIY, YAN

"Organization and results of studies of the epidemiology of sporadic typhus fever in Poland."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

Abstract: Experiments on cats indicated that there are two systems of the synaptic effect of afferent impulses carried from the visceral nerve to the investigated of the principle acts faster and the complete of the system is more efficient, takes a inhibits extensor motoneurons. 2 Western, 1 Czech reference. Submitted at "16 Days of Physiology" at Kosice 30 Sep 65.

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#### CZECHOSLOVAKIA/RUSSIA



DUDA, P., KOSTJUK, P.C. PREOBRAZENSKY, N.N.: Institute of Normal and Pathological Physiology, Slovak Academy of Sciences (Ustav Normalnej a Patologickej Fyziologie SAV), Bratislava; Physiological Institute, Ukrainian Academy of Sciences, Original version not given. KIEV.

"The Mechanism of the Inhibitory Effect of Viscero-Motor Reflections."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 111-112

Abstract: Changes of synaptic potentials of lumbar motoneurons during frequent excitation of n. splanchnicus and the relationship of synaptic processes evoked by impulses from visceral and somatic nerves were investigated. Various impulses causing depressions and the mechanism by which these depressions are evoked are described. The intensity and the duration of these